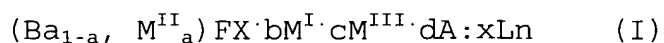


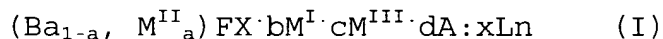
fluoro-halide based phosphor, represented by a constitutional formula (I) as follows:



wherein, M^{II} indicates at least one kind of alkaline earth metal selected from the group consisting of Sr, Ca, and Mg; M^I indicates at least one kind of alkali metal selected from the group consisting of Li, Na, K, Rb, and Cs; M^{III} indicates at least one kind of trivalent metal selected from the group consisting of Al, Ga, In, Tl, Sc, Y, Cd, and Lu, wherein compounds that contain M^{III} exclude Al_2O_3 ; X indicates at least one kind of halogen selected from the group consisting of Cl, Br, and I; Ln indicates at least one kind of rare earth element selected from the group consisting of Ce, Pr, Sm, Eu, Gd, Tb, Dy, Ho, Nd, Er, Tm, and Yb; A indicates at least one kind of metallic oxide selected from the group consisting of Al_2O_3 , SiO_2 , and ZrO_2 ; and a, b, c, d and x are respectively set so as to satisfy relational expressions $0 \leq a \leq 0.3$, $0 \leq b \leq 2$, $0 \leq c \leq 2$, $0 \leq d \leq 0.5$, and $0 < x \leq 0.2$.

18. (Amended) A method for manufacturing a radiation image conversion panel according to claim 14, wherein the step of

dispersing includes providing a calcined product of a stimuable phosphor that is a rare earth-activated alkaline earth metal fluoro-halide based phosphor, represented by a constitutional formula (I) as follows:



wherein, M^{II} indicates at least one kind of alkaline earth metal selected from the group consisting of Sr, Ca, and Mg; M^{I} indicates at least one kind of alkali metal selected from the group consisting of Li, Na, K, Rb, and Cs; M^{III} indicates at least one kind of trivalent metal selected from the group consisting of Al, Ga, In, Tl, Sc, Y, Cd, and Lu, wherein compounds that contain M^{III} exclude Al_2O_3 ; X indicates at least one kind of halogen selected from the group consisting of Cl, Br, and I; Ln indicates at least one kind of rare earth element selected from the group consisting of Ce, Pr, Sm, Eu, Gd, Tb, Dy, Ho, Nd, Er, Tm, and Yb; A indicates at least one kind of metallic oxide selected from the group consisting of Al_2O_3 , SiO_2 , and ZrO_2 ; and a, b, c, d and x are respectively set so as to satisfy relational expressions $0 \leq a \leq 0.3$, $0 \leq b \leq 2$, $0 \leq c \leq 2$, $0 \leq d \leq 0.5$, and $0 < x \leq 0.2$.